10864 U.S. PTO 09/648965

INTE

The subseq has been The not extended U.S

WARN
The info
Possess
Form PTO
(Rev. 6/99)

| POSITION                  | INITIALS | ID NO. | DATE       |
|---------------------------|----------|--------|------------|
| FEE DETERMINATION         | · W      | 71530  | 66 5.0)    |
| O.I.P.E. CLASSIFIER       | ai       | 100    | 0/2        |
| FORMALITY REVIEW          | WU       | 67479  | 10 - K 0   |
| RESPONSE FORMALITY REVIEW |          |        | 70 -70. 00 |

## INDEX OF CLAIMS

| <b>/</b>          | Rejected     | N   | <br>Non-elected  |
|-------------------|--------------|-----|------------------|
| =                 |              | - 1 | <br>Interference |
| — (Through numera | il) Canceled | Α   | <br>Appeal       |
| ÷                 | Restricted   | 0   | <br>Objected     |

|    | Cla      | aim           |          |     |  |               | Da       | te       |          |              |          |                               | 7        | Cla           | aim           | Γ             |          |          | Da       | oto.         |          |              |  |          |
|----|----------|---------------|----------|-----|--|---------------|----------|----------|----------|--------------|----------|-------------------------------|----------|---------------|---------------|---------------|----------|----------|----------|--------------|----------|--------------|--|----------|
|    |          | Г             | or       | 10  | 77   | 20.           |          | Ť        | Т        | Τ            | Т        | Т                             | $\dashv$ |               |               |               | Τ-       | 1        | T        | 10           | Т        | Т.           | Т  | Т        |
| Ŋ  | =        | Original      |          | 27  | 77<br>04   | 100           |          |          |          |              |          |                               |          | _             | Original      |               |          |          |          |              |          |              |  |          |
| 1  | /Finat   | 툳             |          | 12  | 1,4  | n,            |          | 1        |          |              | ì        |                               |          | Finat         | g             |               |          |          |          |              | ı        |              |  | 1        |
| ł  | ξ.       | 7             | 103      | 10, | ۳.   | יץ            | $\vdash$ | -        | ╀        | +-           | +        | +-                            | 4        | 1             |               | <b></b>       | +        | +        | ┼-       | ╄            | ╀        | 4            | ↓  | <u> </u> |
| -  | _        | Ų             | Ľ        | _   | <b>├</b>   | ╄             | <u> </u> | <u> </u> | +-       | 1            | +        | $\perp$                       | 4        | -             | 51            |               | 4        | $\perp$  | <u> </u> | _            | _        | ╙            | $\perp$  | <u> </u> |
| -  |          | H             | U        | _   | <b>—</b>   | _             | <u> </u> | ļ        | 1_       | 4            | 1        | 1                             | 1        | _             | 52            |               | 1_       | 1        | L        | _            |          | L            | L  | _        |
|    |          | ₿             | 4        |     |  | 匚             |          | L        |          | L            | 1        |                               |          |               | 53            |               |          |          | 1        |              |          |              |  |          |
| 1  |          | ŀ             | V        |     |  | L             | 乚        |          | L        |              |          |                               |          |               | 54            |               | T        | Π        | Г        | Π            |          | Т            | Т  | Г        |
|    |          | <u> </u>      | V        |     |  |               |          |          |          |              |          |                               |          |               | 55            |               | 1        |          | Π        |              | Г        | Т            | T  |          |
| L  |          | 6             | 1        |     |  |               |          |          |          |              |          | Т                             | 7        |               | 56            |               | 7        | 1        | Π        | 1            |          |              |  |          |
| ſ  |          | 1             | V        |     |  | Г             |          |          |          | Г            |          | $\top$                        | 1        |               | 57            |               | 1        | 1        |          |              | T        | 1            | 1  |          |
| ſ  |          | В             | 1        |     |  |               |          | Г        |          |              | 1        | $\top$                        | 1        |               | 58            | $\top$        | $\top$   | $\vdash$ | ✝        |              | †-       | +            | +-   |          |
| Ī  |          | Þ             | 7        |     |  |               | <u> </u> |          | T        |              | T        | ✝                             | 1        |               | 59            | $\neg \vdash$ | +-       |          | $\vdash$ | +            | ╁┈       | ╁            | ╁  | 1        |
| İ  |          | 10            | V        | _   | <del>                                     </del> | $\vdash$      | $\vdash$ | _        | 1        | +            | ╁        | +                             | 1        | $\vdash$      | 60            |               | ╁        | ╁        | ╁╴       | ╁            | +-       | +            | +-   | -        |
| t  |          | 7;            | V        | _   | $\vdash$   |               | -        | $\vdash$ | ╁        | ╁╴           | +-       | +-                            | ┨        | $\vdash$      | 61            | -             | ╁        | ╁        | ╀╌       | ┼-           | +-       | <del> </del> | ╀  | ├        |
| ŀ  | $\dashv$ |               |          | -   | -  | -             | -        | -        | ├        | ├-           | ╀        | +-                            | 1        | $\vdash$      | 62            |               | +-       | +-       | -        | ├            | ⊢        | ╄            |  | ļ.,      |
| ŀ  | $\dashv$ | 12<br>19      | V,       |     | -  | -             | -        | -        | ⊢        | ⊢            | ╀        | ┿                             | 4        | -             |               |               | +        | -        | ┡        | ↓_           | ₩        | ╄            | ↓_   | _        |
| ŀ  | -,       |               | ×        |     | -  |               |          | ├—       | -        | ├            | ╂        | ╄-                            | 4        | <u> </u>      | 63            |               | 1        | <u> </u> | ㄴ        | <u> </u>     | ╙        | $\perp$      | <u> </u>   | L        |
| -  | _}       | IJ            | М        |     | _  | L             |          |          | _        | ↓_           | 1        | $oldsymbol{oldsymbol{\perp}}$ | ļ        | L             | 64            |               | 1_       | L        | <u> </u> |              | L        | L            | 丄  | L        |
| ŀ  |          | 1             | _4       |     |  |               |          | _        | <u> </u> | _            | <u> </u> | L                             |          |               | 65            |               |          | <u>L</u> |          |              |          |              |  | İ        |
| L  | _        | 16            | U        |     |  | ٠             |          |          | L        |              | L        | 1                             |          |               | 66            |               |          |          |          | П            |          | Г            | Г  |          |
| L  | $\perp$  | 1/7           | 1        |     |  |               |          |          | İ        |              |          |                               | 1        |               | 67            |               | Т        | П        |          |              |          |              | Г  |          |
| 1  | $\neg$   | 8             |          |     |  |               |          |          |          |              |          | Т                             | 1        |               | 68            |               | T        | $\vdash$ | Г        | 1            | T        | ╁┈           | $\vdash$   | Г        |
| I  | $\neg$   | 9             | U        |     |  |               |          |          |          |              |          | T                             | 1        | $\Box$        | 69            |               | $\top$   |          | $\vdash$ | †            | 1        | Ħ            | 1  | _        |
| Ī  | 7        | 20            | _        | J   | 7  |               | _        |          | ┪        | 1            | ✝        | ╁                             | 1        | $\vdash$      | 70            | $\dashv$      | +        | ╁        |          | -            | $\vdash$ | +            | ╁  | -        |
| H  | _        | 21            | -        | _   |  | J             |          | _        | $\vdash$ | -            | ╀        | +-                            | -        | $\vdash$      | -             |               | +-       | ₩        | -        | <u> </u>     | <b>.</b> | ┡            | ـــ  |          |
| H  | _        | $\rightarrow$ |          | Y   | U  | J             |          | _        | -        | <del> </del> | 1-       | ├                             | 1        | $\vdash$      | 71            |               | 1_       | ╙        | ļ        | <u> </u>     | <u> </u> | L            | 1  |          |
| ŀ  |          | 22            |          | 낃   | ٧  | J             |          |          | <u> </u> | L.           | <u> </u> | <u>Ļ</u>                      | 1        | $\square$     | 72            |               | 1        | _        | <u> </u> | 乚            | L        |              | L  |          |
| ŀ  |          | 23            | _        | V   | ·V   | ٧             | _        |          |          | L            | _        | 1_                            | ļ        |               | 73            |               | $\perp$  |          |          | Ŀ            | <u> </u> |              | L  |          |
| L  | -        | 24            | _        | ᆚ   | V  | ٧             |          |          |          | _            |          |                               | ]        |               | 74            |               |          |          |          |              |          |              | Γ.   |          |
| L  |          | 25            |          | V   | v  | ~             |          |          |          |              | ١.       |                               |          |               | 75            |               | П        | Γ        |          |              | Г        | Г            |  |          |
| Ľ  |          | 26            |          | J   | ų.   |               | ļ        |          |          |              | П        | Π                             | 1        |               | 76            |               | T        |          |          | Г            |          |              | Г  |          |
|    | 1        | 27            |          | J   | ¥  | . ,           |          |          |          |              |          |                               | 1        |               | 77            |               | $\vdash$ |          | -        | T            |          | 1            | $\vdash$   |          |
| Γ. | 7        | 28            |          | ᅱ   | প  | v             |          |          |          |              |          | T                             | 1        |               | 78            |               | †"-      |          |          | 1            | -        | t            | <del>                                     </del> |          |
| Γ  | 1        | 29            | 寸        | 力   | v  | ان            |          | _        |          | -            | 1        | t                             | 1        | $\vdash$      | 79            | +             | $\vdash$ |          |          | <del> </del> | -        | -            | <del> </del>                                     | Н        |
| ۲  | $\dashv$ | 30            |          | Ü   | v  | v             | 7        |          |          | -            | $\vdash$ | 1-                            | 1        | $\vdash$      | 80            | -             | $\vdash$ | $\vdash$ | _        | -            | ├        | <del> </del> | -  | -1       |
| H  | _        | 31            | +        | コ   | J  | $\neg$        |          | -        |          | -            | ┝        | ├                             | ł        |               | 81            |               | ┼        | Н        |          | $\vdash$     |          | <u> </u>     | Ш  |          |
| r  |          | 32            | +        | 4   | J  | K             | $\dashv$ | -        | _        |              | ├-       | $\vdash$                      | ł        | $\vdash$      | $\rightarrow$ |               | ├-       | Н        |          |              | <u> </u> | <u> </u>     | Ш  | Щ        |
| H  |          | 33            | -+       | 4   |  | J             | -        | -        | -        |              | _        | <u> </u>                      |          | $\vdash$      | 82            |               | 1        | Ш        |          | L.           | _        | _            |  |          |
| H  | _        | 34            | $\dashv$ | J   | U  | ₹             |          | $\dashv$ |          |              | _        | _                             | ļ        | $\rightarrow$ | 83            |               | _        |          |          |              |          | <u> </u>     | Ш  |          |
| H  |          |               |          | 기   | Y  | -             |          | _        |          | L.           |          | _                             |          | -             | 84            |               |          | Ш        |          |              | L.       |              | $\square$  |          |
| H  |          | 35            | -∤       | U   | J  | Y             | _        | _        |          |              | L.       | _                             |          | L L           | 85            | _ _           | <u> </u> | Ш        |          |              |          |              | $\sqcup$   |          |
| L  | _        | 36            | ذرً      | 4   | V  | V             |          |          |          |              | L        |                               |          | $\vdash$      | 86            |               | L        |          |          |              |          | L            |  |          |
| L  | 1        | 37            | _4       | 3   | ┚  | J             |          |          |          |              |          | L                             |          |               | 87            |               |          |          | П        |              |          |              | П  |          |
| L  | -        | 38            |          | 0   |  | v             |          | [        |          | _ 1          |          |                               |          |               | 88            | T             |          |          |          |              |          |              | П  |          |
| L  | _        | 39            |          | V   | J  | 7             | T        | $\neg$   |          |              |          |                               |          |               | 89            |               |          |          |          | П            |          |              | $\neg$   |          |
|    | 4        | 10            | T        | 1   | J  | J             |          | 寸        |          |              |          |                               |          |               | 90            | _             |          | $\Box$   |          |              |          |              | $\neg$   | _        |
|    | 1        | 11            | T        | 7   | U  | 7             | +        | +        | $\dashv$ |              | $\dashv$ | -                             |          | ↦             | 91            |               | -        | $\vdash$ | -        | -            |          |              | $\vdash$   | $\dashv$ |
| ì- |          | 12            | +        | 7   | _  | J             | $\dashv$ | +        |          | $\dashv$     | $\dashv$ | L                             |          | -             | 92            |               |          | $\vdash$ |          |              |          |              |  | _        |
| H  |          | 13            | -        | 7   | 닏  | 7             | +        | +        |          | $\dashv$     | -        |                               |          | -             | _             | +             |          |          |          | _            |          | _            |  | _        |
| H  | -        | $\rightarrow$ | +        | 7   | J  | $\rightarrow$ | -        | -        | -        |              |          | Щ                             |          |               | 93            |               |          |          |          |              |          |              |  |          |
| _  | _        | 44            | $\perp$  |     | 4  | 4             | 4        | _        | _        | _            |          |                               |          |               | 94            |               |          |          |          | _            |          |              |  | _        |
| _  | -        | 5             | -        | /   |  | 낃             | _        | _        | _        |              |          |                               |          | -             | 95            |               |          | $\Box$   |          |              |          |              |  | $\neg$   |
|    | 14       | 6∤            | 4        | ŭ.  | نا   | 0             | $\perp$  |          |          |              |          |                               |          | 9             | 96            |               |          |          | 7        | $\neg$       |          |              | $\neg$   | $\neg$   |
|    |          | 7             | - 1      | - 1 | U  | 1             |          | T        | T        | П            | 1        | П                             |          | 5             | 97            |               |          | 寸        |          | 7            |          |              | $\dashv$   | $\dashv$ |
| _  | _        | 8             |          |     | J  | 7             |          |          | T        |              | 7        |                               |          | 9             | 98            |               |          | $\dashv$ |          |              | $\dashv$ |              | -  | $\dashv$ |
| _  | 4        | 9             |          |     | J  | 4             |          | $\neg$   |          | 7            | $\neg$   |                               |          |               | 99            | -             |          | $\dashv$ | $\dashv$ | -            | $\dashv$ |              | $\dashv$   | $\dashv$ |
|    |          | 0             | $\top$   | 7   | 1  | 7             | $\neg$   | $\dashv$ | 7        | $\neg$       | 7        | $\dashv$                      |          |               | 00            | +-            |          | +        | +        | $\dashv$     | $\dashv$ |              | -  | $\dashv$ |
|    | _        |               |          |     |  |               |          |          | _        |              |          |                               |          |               |               |               |          |          |          |              | 1        |              |  |          |

| Cla           | im            | Date |          |              |          |              |          |          |  |  |
|---------------|---------------|------|----------|--------------|----------|--------------|----------|----------|--|--|
|               | na!           |      |          |              |          |              |          | -        |  |  |
| Final         | Original      |      | 1        | 1            | 1        |              |          |          |  |  |
| ĬĬ.           |               | ļ    | ↓_       | ╄            | -        | ↓_           | _        | L        |  |  |
|               | 101           | _    | ļ.,      | ╄            | ╄        | ļ            | <u> </u> | Ļ        |  |  |
|               | 102           | ļ.,  | ╀-       | <del> </del> | 1        | $\perp$      | ļ        | L        |  |  |
|               | 103           | _    | <u> </u> | ╀            | _        | _            | <u> </u> | L        |  |  |
| _             | 104           | _    | ╄        | -            | ╄        | -            | ₩        | L        |  |  |
| _             | 105           | _    | ╀        | ╀            | ┼        | ╄            | ├        | L        |  |  |
| -             | 106<br>107    | _    | ╀        | +-           | ╀        | ┼-           | ├        | ┞        |  |  |
| _             | 108           |      | ╀        | ╀╌           | +        | ┾            | ⊢        | ┞        |  |  |
|               | 109           |      | -        | +            | ┼        | +-           | ╁        | ╀        |  |  |
|               | 110           | _    | ┝        | ╁            | +-       | +            | ⊢        | ┝        |  |  |
| _             | 111           |      | ╁        | ╁            | ╀        | ┼            | $\vdash$ | ╀        |  |  |
| _             | 112           | _    | $\vdash$ | Į÷           | ⊬        | -            | -        | ┞        |  |  |
| -             | 113           | _    | +        | +            | +-       | $\vdash$     | -        | $\vdash$ |  |  |
| _             | 114           |      | +-       | +            | +-       | ╁            | -        | L        |  |  |
|               | 114<br>115    |      | +        | +            | +        | +-           |          | ۲        |  |  |
| -             | 116           | _    | +        | ╁            | +        | +            | 6        | D        |  |  |
| _             | 117           |      | ⊢        | ┼            | ╁        | +-           | 7        |          |  |  |
| -             | 118           |      | -        | +            | ┼        | <del>├</del> |          |          |  |  |
|               | 119           |      | ├        | ┢            | ┼        | 1            |          |          |  |  |
|               | 120           |      | ⊢        | ╀╌           | -        | ╀            |          | F        |  |  |
|               |               |      | L        | ↓_           | ╄        | ـــ          | 0        |          |  |  |
| _             | 121           |      | _        | <b> </b> _   | ╄        | ۱.           |          | E        |  |  |
|               | 122           | _    | <b>!</b> | <b>↓</b> -   | ↓_       | <u> </u>     | C        | 10       |  |  |
|               | 123           |      | _        | L            | <u> </u> |              | 7        | 4        |  |  |
| _             | 124           |      | ├-       | ↓_           | 1_       | <b>.</b>     | <b>Q</b> | Ô        |  |  |
|               | 125           |      | ┝        | ↓_           | 1        | -            |          |          |  |  |
| $\overline{}$ | 126           |      |          | <del> </del> | ↓        | ļ.,          | C        | D        |  |  |
|               | 127           | _    | L        | ļ            | <u> </u> | _            |          | 6        |  |  |
|               | 128           |      | <u> </u> | <u> </u>     | <u> </u> |              |          | P        |  |  |
|               | 129           |      | _        |              | ļ.,      |              | ~        | 0        |  |  |
|               | 130           |      | <u> </u> | <u> </u>     | <u> </u> | -            |          | -        |  |  |
|               | 131           |      | _        | -            |          | <u> </u>     | V        | 2        |  |  |
|               | 132           |      | -        |              | ├-       | ├            | Q        |          |  |  |
| -             | 133<br>134    |      | -        | 1            | 1        | -            | Ž        | h        |  |  |
|               | 134           | _    | $\vdash$ | -            | ├        | H            |          | Ē        |  |  |
|               | 136           |      | $\vdash$ | ├-           | $\vdash$ | -            | <u> </u> | $\vdash$ |  |  |
|               | 137           | _    | -        | -            | ├        | -            | -        | -        |  |  |
|               | 38            | -    | $\vdash$ | -            | -        | -            | $\vdash$ | -        |  |  |
|               | 39            |      | -        | -            | $\vdash$ | -            | -        | -        |  |  |
| _             | $\rightarrow$ | -    |          | -            | $\vdash$ | -            |          | _        |  |  |
|               | 40            | _    |          | -            | ١,-      |              |          |          |  |  |
|               | 141           | _    | _        | _            |          | _            |          | _        |  |  |
|               | 142           | _    |          | L            |          | Ш            | <u>.</u> |          |  |  |
| $\rightarrow$ | 143           | _    |          | _            |          | $\square$    |          | _        |  |  |
|               | 44            | -    |          | <u> </u>     | L        | Ш            | _        |          |  |  |
| _             | 45            | _    |          |              |          | $\sqcup$     |          |          |  |  |
|               | 46            | 4    |          | <u> </u>     |          |              | _        |          |  |  |
|               | 47            | _    |          | L.           | Ш        | <b> </b>     |          |          |  |  |
|               | 48            | _    |          |              | Ш        |              |          |          |  |  |
| _  1          | 49            | 4    |          |              |          | _            |          |          |  |  |
| 1             | 50            | - 1  |          |              | . I      |              | - 1      |          |  |  |

If more than 150 claims or 10 actions staple additional sheet here

(LEFT INSIDE)